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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,717	01/06/2006	Stefan Muller	PD030074	1519
<sup>24498</sup> Joseph J. Laks	7590 10/27/200	EXAMINER		
Thomson Licen		ALPHONSE, FRITZ		
2 Independence Way, Patent Operations PO Box 5312			ART UNIT	PAPER NUMBER
PRINCETON, 1	NJ 08543	2112		
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			10/27/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary    Total Examinar			Application No.	Applicant(s)				
FRITZ ALPHONSE  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication, even if think the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication, even if think the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication, even if think the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date of this communication.  - If NO period for reby is specified above, the maining date o	Office Action Commence		10/563,717	MULLER ET AL.				
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Attachment(s)  1) \[ \sum \text{Notice of References Cited (PTO-892)} \]  Attachment(s) \[ 4) \sum \text{Interview Summary (PTO-413)} \]								
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1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)	Attachmen	t(s)						
	(PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Information Disclosure Statement(s) (PTO/SP/08)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:	· Tr							

1. This Office Action is in response to the amendment filed on 7/28/2008. Claims 1-10 are pending.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Demura (US Pub. No. 20020099996) in view of Greenblat (US Pub. No. 20030212830) and further in view of Yuan (U.S. Pat. No. 6,526,477).

As to claim 8, Demura (figs. 1-12) show a device for error correction of an encoded data stream, including: an input buffer (figure 3, component 2) for saving the demodulated data stream (paragraph [0031]); an external DRAM to which the data are transferred after correction (paragraph [0044]); an embedded SRAM (figure 5 component 13) for performing a multipass correction on the corrected data;

Demura does not explicitly disclose "means for copying the data frame from the external DRAM to the embedded SRAM; and means for copying the corrected data back from the embedded SRAM to the external DRAM after the multipass correction."

However, the limitations are obvious and well known in the art, as evidenced by Greenblat (paragraph [0413]). Greenblat teaches means for copying the data frame from the

external DRAM to the embedded SRAM; and means for copying the corrected data back from the embedded SRAM to the external DRAM after the multipass correction.

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to improve upon the communication system, as disclosed by Greenblat. Doing so would provide a highly robust programmable packet processor that can support a variety of high end applications, that is capable of handling a variety of protocols, and that provides desired performance in terms of speed and power.

In addition, as to claim 8, Demura does not explicitly disclose an input buffer for performing a correction process on-the-fly. However, the limitation is disclosed by Yuan (col. 8, lines 42-52).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to improve upon the memory device, as disclosed by Yuan. Doing so would provide a low-cost host-memory based RAID system.

As to claim 1, Demura (figs. 1-12) show a method for error correction of an encoded data stream including the steps of: saving the demodulated data stream in an input buffer (figure 3, component 2 shows an input buffer for saving the demodulated data stream) (paragraph [0031]); transferring the data to an external DRAM after correction (paragraph [0044]).

Demura does not explicitly disclose "copying the data from the external DRAM to an embedded SRAM; starting a multipass correction in the embedded SRAM; and copying the corrected data back from the embedded SRAM to the external DRAM after the multipass correction."

However, the limitations are obvious and well known in the art, as evidenced by Greenblat (paragraph [0413]). Greenblat teaches means for copying the data frame from the external DRAM to the embedded SRAM; and means for copying the corrected data back from the embedded SRAM to the external DRAM after the multipass correction.

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to improve upon the communication system, as disclosed by Greenblat. Doing so would provide a highly robust programmable packet processor that can support a variety of high end applications, that is capable of handling a variety of protocols, and that provides desired performance in terms of speed and power.

Demura does not explicitly disclose performing a first correction process on-the-fly in the input buffer. However, the limitation is disclosed by Yuan (col. 8, lines 42-52).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to improve upon the memory device, as disclosed by Yuan. Doing so would provide a low-cost host-memory based RAID system.

As to claims 2-7, the dependent claims 2-7 included in the statement of rejection but not specifically addressed in the body of the rejection have inherited the deficiencies of the parent claim 1 and have not resolved the deficiencies. Therefore, they are rejected based on the same rationale as applied to the parent claim above.

As to claim 10, the claim has substantially the limitations of claim 1; therefore, they are analyzed as previously discussed in claim 1 above.

4. Claim 9 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Claim 9 contains allowable subject matter because none of the cited references either

singular or in combination discloses "a device including a deinterleaver for deinterleaving and/or

for correcting streaming discontinuities in the external DRAM."

Response to Arguments

5. Applicant's arguments filed on 7/28/2008 have been fully considered but they are not

persuasive.

Applicant argues that "In this way, the number of random accesses to the external DRAM

is reduced. After gathering a full ECC block in the DRAM, the data is streamed to the embedded

internal SRAM where the ECC block is corrected via multipass correction, and streamed back to

the DRAM. The size of the internal SRAM is reduced. The internal SRAM correction simplifies

the hardware complexity during the correction process and the overall correction process is

speed up (see Specification page 2, lines 17-32). These features are neither disclosed nor

suggested by the prior art."

The examiner respectfully disagrees because some of the limitations cited in this

argument "After gathering a full ECC block in the DRAM, the data is streamed to the embedded

internal SRAM where the ECC block is corrected via multipass correction, and streamed back to

the DRAM. The size of the internal SRAM is reduced..." are not in the claim.

Applicant argues that "The data are not corrected in the SRAM, but in the DRAM based on the dense maps stored in the SRAM". Thus, Demura neither discloses nor suggests "performing a first correction process on-the-fly in the input buffer" as recited in the present claimed arrangement.

The examiner asserts that Demura does not explicitly disclose an input buffer for performing a correction process on-the-fly. However, the limitation is disclosed by Yuan (col. 8, lines 42-52). In addition, Demura (fig. 5) shows a SRAM (buffer memory 13) for correcting data.

Applicant argues that "Greenblat, similarly to Demura, also neither discloses nor suggests starting a multipass correction in the embedded SRAM..."

The examiner respectfully disagrees because Demura (figure 5 component 13) shows an embedded SRAM for performing a multipass correction on a corrected data.

## Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fritz Alphonse, whose telephone number is (571) 272-3813. The

examiner can normally be reached on M-F, 8:30-6:00, Alt. Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jacques Louis-Jacques, can be reached at (571) 272-6962.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (571) 272-3824

Information regarding the status of an application may also be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/FA/

Examiner, Art Unit 2112

October 20, 2008

/JACQUES H LOUIS-JACQUES/

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Supervisory Patent Examiner, Art Unit 2100

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